QOS (IMPLEMENTING CISCO QUALITY OF SERVICE (QOS) 2.5) 2.5

Objetivo

Implement Cisco's Quality of Service

PÃºblico Alvo

Channel Partner / Reseller Customer Employee

PrÃ©-Requisitos

CCNA content

Carga HorÃ¡ria

40 horas (5 dias).

ConteÃºdo ProgramÃ¡tico

Module 1: Introduction to QoS
Lesson 1-1: Review Converged Networks
Lesson 1-2: Understand QoS
Lesson 1-3: Describe Best-Effort and Integrated Services Models
Lesson 1-4: Describe the Differentiated Services Model
Lesson 1-5: Module Summary
Lesson 1-6: Module Self-Check

Module 2: Implement and Monitor QoS
Lesson 2-1: MQC Introduction
Lesson 2-2: Monitor QoS
Lesson 2-3: Define Campus AutoQoS
Lesson 2-4: Define WAN AutoQoS
Lesson 2-5: Module Summary
Lesson 2-6: Module Self-Check

Module 3: Classification and Marking
Lesson 3-1: Classification and Marking Overview
Lesson 3-2: MQC for Classification and Marking
Lesson 3-3: NBAR for Classification
Lesson 3-4: Use of QoS Preclassify

Lesson 3-5: Campus Classification and Marking
Lesson 3-6: Module Summary
Lesson 3-7: Module Self-Check

Module 4: Congestion Management
Lesson 4-1: Queuing Introduction
Lesson 4-2: Configure WFQ
Lesson 4-3: Configure CBWFQ and LLQ
Lesson 4-4: Configure Campus Congestion Management
Lesson 4-5: Module Summary
Lesson 4-6: Module Self-Check

Module 5: Congestion Avoidance
Lesson 5-1: Congestion Avoidance Introduction
Lesson 5-2: Configure Class-Based WRED
Lesson 5-3: Configure ECN
Lesson 5-4: Describe Campus-Based Congestion Avoidance
Lesson 5-5: Module Summary
Lesson 5-6: Module Self-Check

Module 6: Traffic Policing and Shaping
Lesson 6-1: Traffic Policing and Shaping Overview
Lesson 6-2: Configure Class-Based Policing
Lesson 6-3: Campus Policing
Lesson 6-4: Configure Class-Based Shaping
Lesson 6-5: Configure Class-Based Shaping on Frame Relay Interfaces
Lesson 6-6: Configure Frame Relay Voice-Adaptive Traffic Shaping and Fragmentation
Lesson 6-7: Module Summary
Lesson 6-8: Module Self-Check

Module 7: Link Efficiency Mechanisms
Lesson 7-1: Link Efficiency Mechanisms Overview
Lesson 7-2: Configure Class-Based Header Compression
Lesson 7-3: Configure LFI
Lesson 7-4: Module Summary
Lesson 7-5: Module Self-Check

Module 8: Deploying End-to-End QoS
Lesson 8-1: Apply Best Practices for QoS Policy Design
Lesson 8-2: End-to-End QoS Deployments
Lesson 8-3: Module Summary
Lesson 8-4: Module Self-Check

Lab Details:
Case Study 1-1: QoS Mechanisms
Lab 2-1: IP SLA Setup and QoS Baseline Measurement
Lab 2-2: Configuring QoS with Cisco AutoQoS
Case Study 3-1: Classification and Marking

Lab 3-2: Classification and Marking Using MQC
Lab 3-3: Using NBAR for Classification
Lab 3-4: Configuring QoS Preclassify
Lab 3-5: Campus Classification and Marking Using MQC
Lab 4-1: Configuring Fair Queuing
Lab 4-2: Configuring LLQ-CBWFQ
Lab 4-3: Configuring Campus-Based Queuing Mechanisms
Case Study 5-1: WRED Traffic Profiles
Lab 5-2: Configuring DSCP-Based WRED
Lab 5-3: Configuring WTD Thresholds
Lab 6-1: Configuring Class-Based Policing
Lab 6-2: Configuring Class-Based Shaping
Lab 7-1: Configuring Class-Based Header Compression
Lab 7-2: Configuring LFI
Lab 8-1: Mapping Enterprise QoS Policy to the Service Provider Policy